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Q2 Sub B1  
5. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 2, wherein a composition ratio  $y$  of gallium (Ga) in said quantum barrier layer is one of  $y=1$ ,  $y \approx 1$ , and  $0.9 < y \leq 1$ .

Q3 Sub B1  
9. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 2, wherein said composition ratio  $z$  of indium (In) in said quantum barrier layer is one of  $z=0$ ,  $z \approx 0$ , and  $0 \leq z < 0.1$ .

Q4 Sub B1  
11. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 5, wherein said composition ratio  $z$  of indium (In) in said quantum barrier layer is one of  $z=0$ ,  $z \approx 0$ , and  $0 \leq z < 0.1$ .

Sub B1  
28. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 1, wherein said composition ratio  $x$  of indium (In) in said quantum well layer is  $0.15 \leq x \leq 0.6$ .

Q5 Sub B1  
29. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 2, wherein said composition ratio  $x$  of indium (In) in said quantum well layer is  $0.15 \leq x \leq 0.6$ .

30. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 5, wherein said composition ratio  $x$  of indium (In) in said quantum well layer is  $0.15 \leq x \leq 0.6$ .

Q6 Cont Sub B1  
32. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 9, wherein said composition ratio  $x$  of indium (In) in said quantum well layer is  $0.15 \leq x \leq 0.6$ .

33. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 11, wherein said composition ratio  $x$  of indium

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(In) in said quantum well layer is  $0.15 \leq x \leq 0.6$ .

35. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 1, wherein said composition ratio  $x$  of indium (In) in said quantum well layer is  $0.15 \leq x \leq 0.5$ .

36. (Amended) A light-emitting semiconductor device using a group III nitride group compound semiconductor according to claim 2, wherein said composition ratio  $x$  of indium (In) in said quantum well layer is  $0.15 \leq x \leq 0.5$ .

**Please add the following new claims:**

- 39. A light-emitting semiconductor device comprising:  
a substrate;  
a plurality of semiconductor layers formed on said substrate, said layers comprising a group III nitride group compound semiconductor; and  
an active layer comprising at least one quantum well layer comprising  $\text{Al}_{1-x}\text{In}_x\text{N}$ ,  
where  $0.1 \leq x \leq 1$ .

40. A light-emitting semiconductor device according to claim 39, wherein said active layer further comprises at least one quantum barrier layer comprising  $\text{Al}_{1-z-y}\text{Ga}_y\text{In}_z\text{N}$  ( $0 \leq y \leq 1$ ,  $0 \leq z < 1$ ,  $0 \leq z+y \leq 1$ ) which is adjacent to said at least one quantum well layer.

41. A light-emitting semiconductor device according to claim 40, wherein said at least one quantum well layer comprises a plurality of quantum well layers comprising  $\text{Al}_{1-x}\text{In}_x\text{N}$ , where  $0.1 \leq x \leq 1$ , and

wherein said at least one quantum barrier layer comprises a plurality of quantum barrier layers comprising  $\text{Al}_{1-z-y}\text{Ga}_y\text{In}_z\text{N}$  ( $0 \leq y \leq 1$ ,  $0 \leq z < 1$ ,  $0 \leq z+y \leq 1$ ), and alternately formed with said plurality of quantum well layers.

42. A light-emitting semiconductor device according to claim 41, wherein said plurality

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of quantum well layers comprises two quantum well layers having a thickness of about 4nm and comprising  $\text{Al}_{0.80}\text{In}_{0.2}\text{N}$ , and

wherein said plurality of quantum barrier layers comprises three quantum barrier layers having a thickness of about 6nm and comprising GaN.

Q1  
Contd. 43. A group III nitride group compound semiconductor device comprising:  
a substrate; and

a light-emitting layer formed on said substrate, said light-emitting layer comprising:

a plurality of quantum well layers comprising  $\text{Al}_{1-x}\text{In}_x\text{N}$ , where  $0.1 \leq x \leq 1$ ; and

a plurality of quantum barrier layers comprising  $\text{Al}_{1-z-y}\text{Ga}_y\text{In}_z\text{N}$  ( $0 \leq y \leq 1$ ,

$0 \leq z < 1$ ,  $0 \leq z+y \leq 1$ ), which are alternately formed with said plurality of quantum well layers. - -